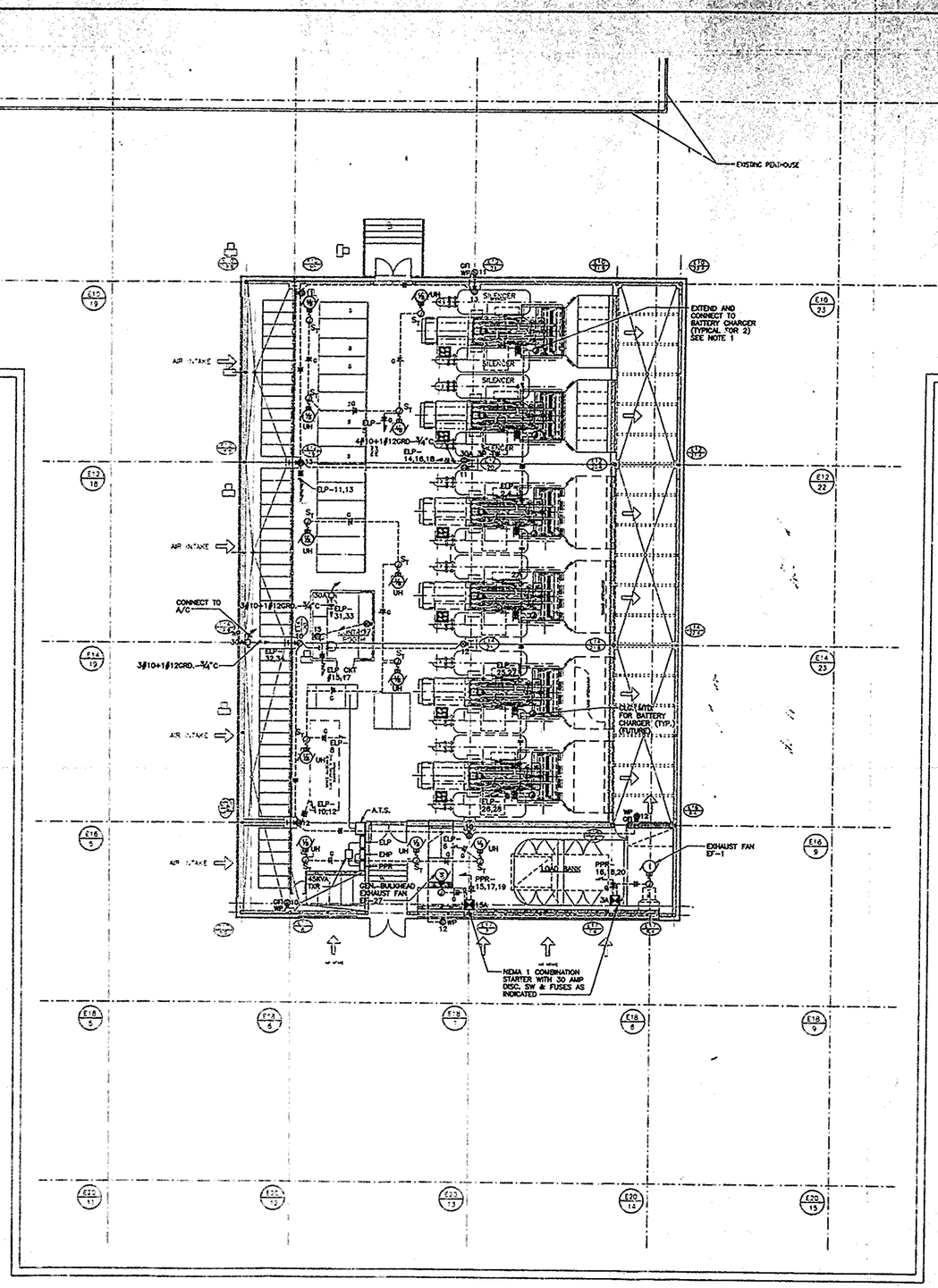


5 WTC STANDBY GENERATOR
BULKHEAD-POWER PLAN

NOTE:

1. VERIFY EXACT LOCATION OF BATTERY CHARGER WITH GENERATOR MANUFACTURER APPROVED INSTALLATION DRAWINGS.

PANEL DESIGNATION: ELP LOCATION: 5WTC ROOF GENERATOR BULKHEAD
SERVICE: 120Y/208 VOLTS 3 PHASE 4 WIRE W/GRD. BUS
MAINS: 225 AMPS WITH 125 AMP MAIN BKR. 42 POLES

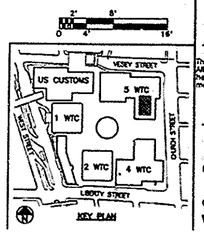
SERVICE TO:	CONN. KVA A	B	C	BRANCH CIRCUITS O.C.	No.	No.	O.C.	CONN. KVA A	B	C	SERVICE TO:
GEN. #1 GENERATOR HEATER	0.75			15A	1	2	20A	1.2			GEN. #1 BATTERY CHARGER
GEN. #2 GENERATOR HEATER		0.75		15A	3	4	20A		1.2		GEN. #2 BATTERY CHARGER
ROOM UNIT HEATERS(4@1/8 HPEA)			1.0	20A	5	6	20A			1.0	ROOM UNIT HTRS(3@1/8 HPEA)
BLDG. SCADA I/O, DIP	—			20A	7	8	20A	1.0			ROOM UNIT HTRS(4@1/8 HPEA)
PNEUMATIC CONTROL PNL.		1.2		15A	9	10	15A		0.7		CONVENIENCE RECEPTACLES
CONVENIENCE RECEPTACLES			1.0	15A	11	12	15A			0.7	CONVENIENCE RECEPTACLES
CONVENIENCE RECEPTACLES	1.0			15A	13	14	30A	3.6			WELDING RECEPTACLE
RECEPTACLE AT BOOTH (PC)		1.5		15A	15	16			3.6		
CONVENIENCE RECEPTACLES			1.0	15A	17	18				3.6	
SYSTEM BATTERY CHARGER	2.0			20A	19	20	15A	0.75			SPARE (FUTURE GEN#5 HEATER)
SPARE (FUTURE GEN#3 HEATER)		0.75		15A	21	22	15A		0.75		SPARE (FUTURE GEN#6 HEATER)
SPARE (FUTURE GEN#4 HEATER)			0.75	15A	23	24	15A			1.2	SPARE (FUTURE GEN#5 BAT. CHRGR)
SPARE (FUTURE GEN#3 BAT. CHRGR)	1.2			15A	25	26	15A	1.2			SPARE (FUTURE GEN#6 BAT. CHRGR)
SPARE (FUTURE GEN#4 BAT. CHRGR)		1.2		15A	27	28	15A		0.75		OUTSIDE LTS VIA TIME SW CONTROL
SECURITY LOCAL CONTROL PNL.			1.2	15A	29	30	15A			—	SPARE
CONTROL BOOTH CONDENSER	1.2			20A	31	32	15A	1.3			CONTROL BOOTH EVAP & REHEAT
		1.2			33	34			1.3		
SPARE			—		35	36				—	SPARE
"	—				37	38		—			"
"		—			39	40			—		"
"			—		41	42				—	"

PANEL DESIGNATION: PPR LOCATION: 5WTC ROOF GENERATOR BULKHEAD
SERVICE: 480Y/277 VOLTS 3 PHASE 4 WIRE W/GRD. BUS
MAINS: 400 AMPS WITH 225 AMP MAIN BKR. 42 POLES

SERVICE TO:	CONN. KVA A	B	C	BRANCH CIRCUITS O.C.	No.	No.	O.C.	CONN. KVA A	B	C	SERVICE TO:
GEN. #1 JACKET WATER HEATER	3.0			20A	1	2	20A	3.0			GEN. #1 JACKET WATER HEATER
		3.0			3	4			3.0		
GEN. #1 JACKET WATER HEATER			3.0	20A	5	6	20A			3.0	GEN. #1 JACKET WATER HEATER
	3.0				7	8		3.0			
PANEL "ELP" VIA 30KVA TXR		10.6		100	9	10	30A		7.0		PANEL "ELP" LIGHTING
			10.6		11	12				7.0	
	10.6				13	14		7.0			
FAN EF-27 5HP		2.5		20A	15	16	15A		0.4		FAN EF-1 1HP
			2.5		17	18				0.4	
	2.5				19	20		0.4			
SPARE(FUTURE G#3 JACKET W.HTR)		3.0		20A	21	22	20A		3.0		SPARE(FUTURE G#5 JACKET W.HTR)
			3.0		23	24				3.0	
SPARE(FUTURE G#4 JACKET W.HTR)	3.0			20A	25	26	20A	3.0			SPARE(FUTURE G#6 JACKET W.HTR)
		3.0			27	28			3.0		
DUPLEX FUEL OIL PUMP 2HP				20A	29	30	20A				DUPLEX FUEL OIL PUMP 2HP
					31	32					
					33	34					
SPARE				20A	35	36	20A				SPARE
"				20A	37	38	20A				"
"				20A	39	40	20A				"
"				20A	41	42	20A				"

PANEL DESIGNATION: EHP LOCATION: 5WTC ROOF GENERATOR BULKHEAD
SERVICE: 277/480 VOLTS 3 PHASE 4 WIRE W/GRD. BUS
MAINS: 100 AMPS WITH 30 AMP MAIN BKR. 12 POLES

SERVICE TO:	CONN. KVA A	B	C	BRANCH CIRCUITS O.C.	No.	No.	O.C.	CONN. KVA A	B	C	SERVICE TO:
GEN. BULKHEAD LTG.	1.2			15	1	2	15	1.4			GEN. BULKHEAD LTG.
GEN. BULKHEAD LTG.				15	3	4	15				GEN. BULKHEAD LTG.
SPARE				15	5	6	15				SPARE
"				15	7	8	15				"
"				15	9	10	15				"
"				15	11	12	15				"



Sheet 51 of 108

THE PORT AUTHORITY OF NY & NJ

ORIGINAL SIGNED & SEALED BY N.Y. P.E. (OR R.A.)

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I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-945.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 11/10/98 Anthony A. Aiello
SR. EE. WATER

DATE 4/8/98 P.K. Sweeney
ENGINEER OF DESIGN

No.	Date	Revision	Approved
1	11/17/97	ISSUED FOR BID	

Engineering Department
Design Divisions

The World Trade Center

Title
STANDBY POWER
5 WORLD TRADE CENTER

ELECTRICAL

GENERATOR BULKHEAD POWER PLAN

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without it's written consent.

Designed by M.A.R. Drawn by Check by

Date 11/17/97 Scale AS NOTED

Contract Number WTC-945.071 Drawing Number E2-01